

Title (en)
CUTTING BLADE ASSEMBLY

Title (de)
SCHNEIDKLINGENANORDNUNG

Title (fr)
ENSEMBLE DE LAME DE COUPE

Publication
EP 2971520 A4 20160817 (EN)

Application
EP 14765322 A 20140317

Priority

- US 201361787386 P 20130315
- US 201361887080 P 20131004
- US 2014030761 W 20140317

Abstract (en)
[origin: US2014263788A1] A cutting blade assembly establishes a bidirectional and/or multifaceted scissor-type cutting action to efficiently and effectively process various types of debris encountered by the cutting blade assembly. The assembly includes a cutting plate and a cutting hub configured for relative rotation. A cutting slot is formed in the cutting plate and intersects the axial face to define a cutting edge at the intersection of the cutting slot and the axial face. The cutting hub has a cutting arm positioned adjacent to the axial face. When the cutting plate and the cutting hub undergo relative rotation, the cutting arm passes adjacent to the cutting edge to perform a scissor-type cutting action.

IPC 8 full level
F01D 5/12 (2006.01); **B02C 18/00** (2006.01); **B02C 18/18** (2006.01); **F01D 25/00** (2006.01); **F03B 3/12** (2006.01); **F03B 11/00** (2006.01); **F03B 11/08** (2006.01); **F04D 29/70** (2006.01)

CPC (source: EP US)
B02C 18/0092 (2013.01 - EP US); **B02C 18/06** (2013.01 - US); **B02C 18/062** (2013.01 - US); **B02C 18/18** (2013.01 - EP US); **F04D 7/045** (2013.01 - EP US); **B02C 2018/147** (2013.01 - US)

Citation (search report)

- [XY] US 7159806 B1 20070109 - RITSEMA STEPHEN T [US]
- [YA] US 6224331 B1 20010501 - HAYWARD JOHN [CA], et al
- [A] US 5456580 A 19951010 - DORSCH GLENN R [US]
- See also references of WO 2014145910A1

Cited by
US11655821B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 2014263788 A1 20140918; US 9475059 B2 20161025; EP 2971520 A1 20160120; EP 2971520 A4 20160817; EP 2971520 B1 20220223; US 10670020 B2 20200602; US 11655821 B2 20230523; US 2017036214 A1 20170209; US 2020291944 A1 20200917; US 2023296098 A1 20230921; WO 2014145910 A1 20140918

DOCDB simple family (application)
US 201414217043 A 20140317; EP 14765322 A 20140317; US 2014030761 W 20140317; US 201615299279 A 20161020; US 202015929999 A 20200602; US 202318322389 A 20230523